

# PRODUCT SPECIFICATIONS FOR 836K



## ENGINE

Gross Power	562 HP
Net Power	496 HP
Engine Model	C18 Cat®
Bore	5.71 in
Stroke	7.2 in
Displacement	1104.5 in <sup>3</sup>
Low Idle Speed	750 r/min
Gross - SAE J1349	562 HP
Rated Power (Net ISO 14396)	553 HP
Net Power - SAE J1349 - Converter Drive - Torque Rise	52 %
Net Power - SAE J1349 - Converter Drive - Gross Power	496 HP
Maximum Altitude - Without Derating	7500 ft
Net Power - SAE J1349 - Direct Drive - Gross Power	496 HP
High Idle Speed	2120 r/min
Net Power - SAE J1349 - Direct Drive - Torque Rise	52 %
Rated Power (Lab)	555 HP

**Maximum Gross Torque - 1,300 rpm**

2275 ft·lbf

**Emissions**

Tier 4 Final/Stage IV/Korea Tier 4 Final or Tier 3/Stage IIIA equivalent

## TRANSMISSION

**Travel Speed - Reverse - Converter 2nd**

6.5 mile/h

**Travel Speed - Forward - Lockup 2nd**

7.3 mile/h

**Travel Speed - Reverse - Lockup 2nd**

7.6 mile/h

**Travel Speed - Forward - Lockup 1st**

4 mile/h

**Transmission Type**

Cat Planetary Powershift

**Travel Speed - Forward - Converter 1st**

3.9 mile/h

**Travel Speed - Reverse - Converter 1st**

4 mile/h

**Travel Speed - Forward - Converter 2nd**

6.8 mile/h

**Travel Speed - Reverse - Lockup 1st**

4.3 mile/h

## HYDRAULIC SYSTEM

**Steering System**

Double Acting – End Mounted

**Stroke (1)**

29.1 in

**Bore (1)**

5 in

**Vehicle Articulation Angle**

86°

**Bore (2)**

5.5 in

**Maximum Supply Pressure**

4640 psi

<b>Stroke (2)</b>	40.2 in
<b>Main Relief Pressure</b>	3495 psi
<b>Lift System</b>	Double Acting Cylinder
<b>Pump Flow at 2,006 rpm</b>	66 gal/min
<b>Hydraulic System</b>	Flow Sharing Implement

## AXLES

<b>Front</b>	Planetary – Fixed
<b>Rear</b>	Planetary – Oscillating
<b>Oscillation Angle</b>	13°

## BRAKING SYSTEM

<b>Parking Brake</b>	Spring Applied, Hydraulic Released
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## BRAKES

<b>Control System</b>	Full Hydraulic Split Circuit
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## SERVICE REFILL CAPACITIES

<b>Fuel Tank</b>	209 gal (US)
<b>Cooling System</b>	28 gal (US)
<b>Crankcase</b>	16 gal (US)
<b>Transmission</b>	32 gal (US)
<b>Diesel Engine Fluid Tank (Tier 4 Final/Stage IV/Korea Tier 4 Final)</b>	9 gal (US)
<b>Differential - Final Drives - Rear</b>	50 gal (US)

Differential - Final Drives - Front

49 gal (US)

Hydraulic System - Tank Only

63 gal (US)

## WEIGHTS

Operating Weight

123319 lb

## CAB

Interior Sound Level - Standard

72 dB(A)

Exterior Sound Level - Suppression

109 dB(A)

Interior Sound Level - Suppression

71 dB(A)

Exterior Sound Level - Standard

111 dB(A)

## OPERATING SPECIFICATIONS

Maximum Operating Weight (Tier 4 Final/Stage IV/Korea Tier 4 Final) - Multiple Blade and Wheel Offerings

123319 lb

Maximum Operating Weight (Tier 3/Stage IIIA equivalent) - Multiple Blade and Wheel Offerings

122615 lb

Operating Weight - With Full Tank Capacities and U-Blade (Tier 3/Stage IIIA Equivalent)

122615 lb

Operating Weight - With Full Tank Capacities and U-Blade (Tier 4 Final/Stage IV/Korea Tier 4 Final)

123319 lb

## DIMENSIONS (APPROXIMATE)

Height - Top of Cab with A/C

15.27 ft

Height - Top of Exhaust Pipe

15.12 ft

Height - Top of Hood

11.22 ft

Ground Clearance - Bumper

3.38 ft

<b>Centerline of Rear Axle to Edge of Counterweight</b>	10.46 ft
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<b>Hitch to Centerline of Front Axle</b>	7.46 ft
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<b>Wheel Base</b>	14.93 ft
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<b>Width - Over Wheels</b>	14.04 ft
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<b>Height - ROPS/Canopy</b>	14.06 ft
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<b>Height - Top of Cab with Strobe</b>	15.9 ft
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<b>Length - With Blade on Ground - Straight Blade</b>	33.41 ft
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<b>Turning Radius - Inside of Wheels</b>	11.93 ft
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<b>Ground Clearance</b>	2.07 ft
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## HYDRAULIC SYSTEM - STEERING

<b>Total Steering Angle</b>	86 degrees
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<b>Steering Pressure Limited</b>	3495 psi
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<b>Steering System - Circuit</b>	Steering Double Acting – End Mounted
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<b>Steering System - Pump</b>	Piston – Variable Displacement
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<b>Maximum Flow at × rpm</b>	52 L/min @ 2,006 rpm
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## WHEELS AND TIPS

<b>Diameter - With Tips</b>	7 ft
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<b>Drum Diameter</b>	5.81 ft
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<b>Drum Width</b>	4.59 ft
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<b>Tips per Wheel</b>	40
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# 836K STANDARD EQUIPMENT

## NOTE

Standard and optional equipment may vary. Consult your Cat dealer for details.

## POWER TRAIN

Advanced Productivity Electronic Control Shifting (APECS)

Air to air aftercooler

Brakes, fully hydraulic, enclosed, wet multiple disc brakes

Cat Clean Emission Module, insulated (Tier 4 Final/Stage IV/Korea Tier 4 Final)

Electro hydraulic parking brake

Engine, Cat C18: – Tier 4 Final/Stage IV/Korea Tier 4 Final – Tier 3/Stage IIIA equivalent

Fuel priming pump, electric

Fuel to air cooler

Ground level engine shutoff

Guard (3 piece) transmission

Heat shield, turbo and exhaust manifold

Hydraulically driven demand fan

Integrated braking

Radiator, Aluminum Modular Radiator (AMR)

Separated cooling system

Starting aid (ether) automatic

Throttle lock

Torque converter with lockup clutch (LUC)

Turbine precleaner, engine air intake

Transmission, planetary, with 2F/2R speed range control

Underhood ventilation system

## ELECTRICAL

Alarm, back-up

Alternator, 150 amp

Batteries, maintenance-free (4-1,000 CCA)

Converter, 10-15 amp, 24V to 12V

Lighting system, halogen (front and rear)

Lighting, access stairway

Starter, electric (heavy duty)

Starter lockout (ground level)

Starting receptacle for emergency start

Transmission lockout (ground level)

## OPERATOR ENVIRONMENT

Air conditioner

Cab, sound-suppressed and pressurized

Internal four-post rollover protective structure (ROPS/FOPS)

Radio ready for (entertainment) includes antenna, speakers and converter (12V, 10-15 amp) 12V power port for mobile phone or laptop connection

Camera, rear vision

Coat and hard hat hooks

Flip-up armrest

Heater and defroster

Horn, electric

Hydraulic controls (floor mounted)

Implement hydraulic lockout

Laminated glass

Light, (dome) cab

Lunchbox and beverage holders

Instrumentation, Gauges: – DEF fluid level (Tier 4 Final/Stage IV) – Hydraulic oil temperature –

Speedometer/tachometer – Torque converter temperature

Instrumentation, Warning Indicators: – Action alert system, three category – Axle/brake oil temp, front –

Brake oil pressure – Electrical system, low voltage – Engine failure malfunction alert and action lamp

Mirrors, rearview (externally mounted)

Parking brake status

Radio, CB (ready)

Seat, Cat Comfort, (cloth) air suspension

Seat belt, retractable, 76 mm (3") wide

STIC Control System with steering lock

Sun visor, front

Tinted glass

Transmission gear (indicator)

Vital Information Management System (VIMS) with graphical information display: external data port, customizable operator profiles

Wet-arm wipers/washers (front and rear)

Intermittent wipers (front and rear)

## **WHEELS**

Wheels, paddle, plus, combination, and diamond wheel configurations

## **GUARDS**

Guards, axle (front and rear)

Guards, cab window

Guards, crankcase and power train, hydraulically powered

Guards, rear fan and grill

## **BLADES**

Bulldozer arrangement is included in the standard equipment. Bulldozer blades are optional.

## **FLUIDS**

Antifreeze, premixed 50% concentration of extended life coolant with freeze protection to -34° C (-29° F)

## **OTHER STANDARD EQUIPMENT**

Auto Blade Positioner (ABP)  
Demand fan/swing out (hydraulic reversible)  
Doors, service access locking  
Ecology drains for engine, radiator, hydraulic tank  
Electronic clutch pressure control and remote mounted pressure taps  
Emergency platform egress  
Engine, crankcase, 250 hour interval with CJ-4 oil  
Fuel tank, 793 L (210 gal)  
Hitch, drawbar with pin  
Hoses, Cat XT™  
Hydraulic oil cooler  
Hydraulic, steering and brake filtration/screening system  
Oil sampling valves  
Product Link  
Stairways, fixed-L/R (rear access)  
Steering, load sensing  
Vandalism protection caplocks  
Venturi stack

## **836K OPTIONAL EQUIPMENT**

### **NOTE**

Standard and optional equipment may vary. Consult your Cat dealer for details.

### **VARIOUS BLADES:**

Straight blade  
U-blade  
Semi U-blade

### **VARIOUS TIP AND WHEEL ARRANGEMENTS:**

Paddle  
Plus  
Diamond